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Executive Engineer,
Yelahanka Division,
Bruhat Bengaluru Mahanagara Palike

Quality Control Reports

(SIX and [redacted])

FINAL

Name of the Package:

Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

AGENCY: Sri. H Srinivasa Reddy

Estimate Cost: 1000.00 Lakhs

Project Management Consultants:

SAPIENCE CONSULTANTS AND ENGINEERS, BANGALORE.

#B9-003, GANGA, Jnanabharathi Enclave, Valagerahalli, Mysore Road Bangalore 560056

Ph: 080-29523634; E-Mail: SAPIENCEBANGALORE@GMAIL.COM

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Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

Test Report on Cement

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-6/BBMP/YHK/2022-23/55 Dt. 25/07/2022
Contractor / Agency	Sri. Sreenivasa Reddy
Material	Cement (Birla Super 53 grade OPC)
Test Method	IS: 269:2015
Sampel Supplied By	PMC Agency
Date of Manufacture	Jun - 2022
Date of Testing	04.06.2022 - 05.06.2022

Sl. No.	Description	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part -5)	136 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5):1988(RA 2014)	339 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	27 %	-

Note:

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→ Any Query regarding the report must be reported within 15 days from the date of testing.

For Sapience Consultants and Engineers,

SAPIENCE CONSULTANTS ENGINEERS Bangalore-59

Authorized Signature

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Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

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Test Report on Aggregates

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO. 12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-6/BBMP/YHK/2022-23/55 Dt. 25/07/2022
Contractor / Agency	Sri. M RAMESH
Material	20mm Aggregates
Test Method	IS 383-1970 (RA- 2002)
Sampel Supplied By	PMC Agency
Date of Testing	06.06.2022

Total weight of Aggregates in gms: 5000

Is Sieve Size in mm	Weight Retained on Sieve (gm)	Percentage of Weight Retained (%)	Percentage of Weight Passing (%)	Cumulative Percentage Passing (%)	Spec Limits
40	0	0	0	100	100
20	167.1	3.342	3.342	96.66	95-100
10	2828.5	56.57	59.912	40.09	25-55
4.75	1844.9	36.898	96.81	3.19	0-10

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Test Report on Aggregates

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-6/BBMP/YHK/2022-23/55 Dt. 25/07/2022
Contractor / Agency	Sri. Sreenivasa Reddy
Material	40mm Aggregates
Test Method	IS 383-1970 (RA- 2002)
Sampel Supplied By	PMC Agency
Date of Testing	06.06.2022

Total weight of Aggregates in gms: 5000

Is Sieve Size in mm	Weight Retained on Sieve (gm)	Percentage of Weight Retained (%)	Percentage of Weight Passing (%)	Cumulative Percentage Passing (%)	Spec.Limits
80.00	0	0	0	100	100.00
40.00	186.1	3.72	3.72	96.28	95-100
20.00	2823.9	56.48	60.20	39.80	30-70
10.00	1051.4	21.03	81.23	18.77	10-35
4.75	916.1	18.32	99.55	0.45	0-5

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Consultants and Engineers
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#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

Test Report on Compressive Strength of Concrete Cubes

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/YHK/2022-23/55 Dt. 25/07/2022
Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 20
Compressive Strength	7^{th} Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	21-Jun-22	28-Jun-22	8.148	329.63	14.65
2	21-Jun-22	28-Jun-22	8.164	328.05	14.58
3	21-Jun-22	28-Jun-22	8.142	324.23	14.41

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Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 20
Compressive Strength	28th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	21-Jun-22	19-Jul-22	8.164	496.13	22.05
2	21-Jun-22	19-Jul-22	8.166	494.78	21.99
3	21-Jun-22	19-Jul-22	8.136	499.95	22.22

For Sapience Consultants and Engineers,

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Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 20
Compressive Strength	7^{th} Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	22-Jun-22	29-Jun-22	8.131	319.28	14.19
2	22-Jun-22	29-Jun-22	8.130	324.23	14.41
3	22-Jun-22	29-Jun-22	8.141	316.80	14.08

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Job No.:	SCE/PMC/QCR-4/BBMP/YHK/2022-23/55 Dt. 25/07/2022
Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 20
Compressive Strength	7^{th} Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	22-Jun-22	29-Jun-22	8.158	330.75	14.70
2	22-Jun-22	29-Jun-22	8.155	326.25	14.50
3	22-Jun-22	29-Jun-22	8.135	326.93	14.53

For Sapience Consultants and Engineers,

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Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 20
Compressive Strength	7th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	24-Jun-22	1-Jul-22	8.147	324.68	14.43
2	24-Jun-22	1-Jul-22	8.132	321.08	14.27
3	24-Jun-22	1-Jul-22	8.160	324.90	14.44

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Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 20
Compressive Strength	7th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	25-Jun-22	2-Jul-22	8.129	328.28	14.59
2	25-Jun-22	2-Jul-22	8.155	317.70	14.12
3	25-Jun-22	2-Jul-22	8.131	321.30	14.28

For Sapience Consultants and Engineers,

SCIENCE CONSULTANTS & ENGINEERS Bangalore-59

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(Building, Geo-Tech & Road Materials Testing Laboratory)

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Test Report on Compressive Strength of Concrete Cubes

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Job No.:	SCE/PMC/QCR-6/BBMP/YHK/2022-23/55 Dt. 25/07/2022
Contractor / Agency	Sri. Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	28th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	19-Jul-22	16-Aug-22	8.138	782.33	34.77
2	19-Jul-22	16-Aug-22	8.150	769.05	34.18
3	19-Jul-22	16-Aug-22	8.147	774.23	34.41

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SAPIENCE CONSULTANTS & ENGINEERS Bangalore-59

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Test Report on Compressive Strength of Concrete Cubes

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
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Job No.:	SCE/PMC/QCR-6/BBMP/YHK/2022-23/55 Dt. 25/07/2022
Contractor / Agency	Sri. Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	28th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	19-Jul-22	16-Aug-22	8.139	779.40	34.64
2	19-Jul-22	16-Aug-22	8.147	780.53	34.69
3	19-Jul-22	16-Aug-22	8.141	780.98	34.71

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Test Report on Compressive Strength of Concrete Cubes

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Job No.:	SCE/PMC/QCR-6/BBMP/YHK/2022-23/55 Dt. 25/07/2022
Contractor / Agency	Sri. Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	28th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	19-Jul-22	16-Aug-22	8.166	769.28	34.19
2	19-Jul-22	16-Aug-22	8.156	780.08	34.67
3	19-Jul-22	16-Aug-22	8.137	771.30	34.28

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Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	28th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	20-Jul-22	17-Aug-22	8.152	777.60	34.56
2	20-Jul-22	17-Aug-22	8.134	786.38	34.95
3	20-Jul-22	17-Aug-22	8.153	785.70	34.92

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Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

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Test Report on Compressive Strength of Concrete Cubes

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-6/BBMP/YHK/2022-23/55 Dt. 25/07/2022
Contractor / Agency	Sri. Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	28th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	20-Jul-22	17-Aug-22	8.139	786.60	34.96
2	20-Jul-22	17-Aug-22	8.165	775.35	34.46
3	20-Jul-22	17-Aug-22	8.156	770.18	34.23

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(Civil Engg. Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

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Test Report on Compressive Strength of Concrete Cubes

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-6/BBMP/YHK/2022-23/55 Dt. 25/07/2022
Contractor / Agency	Sri. Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	7th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	21-Jul-22	28-Jul-22	8.138	502.43	22.33
2	21-Jul-22	28-Jul-22	8.166	509.63	22.65
3	21-Jul-22	28-Jul-22	8.137	519.30	23.08

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(Building, Geo-Tech & Road Materials Testing Laboratory)

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Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

Test Report on Compressive Strength of Concrete Cubes

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore
Job No.:	SCE/PMC/QCR-6/BBMP/YHK/2022-23/55 Dt. 25/07/2022
Contractor / Agency	Sri. Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	7th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	21-Jul-22	28-Jul-22	8.169	514.13	22.85
2	21-Jul-22	28-Jul-22	8.123	513.90	22.84
3	21-Jul-22	28-Jul-22	8.158	513.90	22.84

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ಬ ಜ.ಎಂ.ಪ. ಬೆಂಗಳೂರು-106

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Consultants and Engineers
(Soil Testing, Geo-Tech & Road Materials Testing Laboratory)

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#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

Test Report on Compressive Strength of Concrete Cubes

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-6/BBMP/YHK/2022-23/55 Dt. 25/07/2022
Contractor / Agency	Sri. Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	28th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	21-Jul-22	18-Aug-22	8.171	519.75	23.10
2	21-Jul-22	18-Aug-22	8.151	511.43	22.73
3	21-Jul-22	18-Aug-22	8.165	516.38	22.95

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(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

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Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-6/BBMP/YHK/2022-23/55 Dt. 25/07/2022
Contractor / Agency	Sri. H Sreenivasa Reddy
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2720(Part 5):1985
Source / Location	Plant
Sample No.	1, 2 and 3
Date	01.06.2022 , 02.06.2022 and 04.06.2022

Sl. No	Description	Test #1	Test #2	Test #3	IS Specifications
1	Liquid Limit, %	22.33	21.08	21.7	-
2	Plasticity Index, %	Non Plastic	Non Plastic	Non Plastic	6.0% Maximum.

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Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

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GRADATION FOR GSB (Grading V)

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-6/BBMP/YHK/2022-23/55 Dt. 25/07/2022
Contractor / Agency	Sri. H Sreenivasa Reddy
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	1 & 2
Date	04.06.2022 , 05.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2113.7	2113.7	10.57	89.43	80 - 100	
26.5	3467.8	5581.5	27.91	72.09	55 - 90	
9.5	4980.5	10562.0	52.81	47.19	35 - 65	
4.75	1475.4	12037.4	60.19	39.81	25 - 50	
2.36	5518.3	17555.7	87.78	12.22	10 - 20	
0.850	1501.0	19056.7	95.28	4.72	2 - 10	
0.425	325.2	19381.9	96.91	3.09	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2231.3	2231.3	11.16	88.84	80 - 100	
26.5	2496.7	4728.0	23.64	76.36	55 - 90	
9.5	5195.2	9923.2	49.62	50.38	35 - 65	
4.75	2612.1	12535.3	62.68	37.32	25 - 50	
2.36	4865.0	17400.3	87.00	13.00	10 - 20	
0.850	1508.3	18908.6	94.54	5.46	2 - 10	
0.425	734.1	19642.7	98.21	1.79	0 - 5	

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